

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063564.D
 Acq On : 23 Sep 2020 4:51
 Operator : JC/MD
 Sample : PB131772ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131772ZHE#02

Quant Time: Sep 23 05:52:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

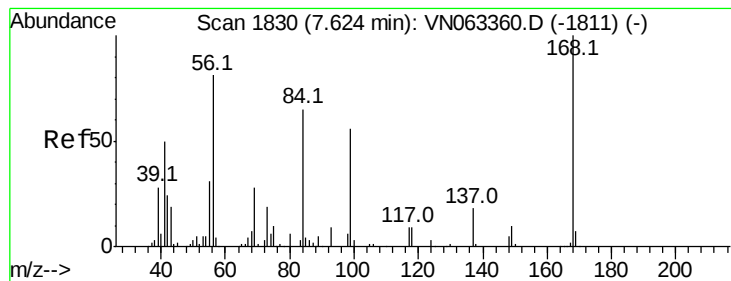
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	206228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	394010	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	397928	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163541	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	179962	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
35) Dibromofluoromethane	7.55	113	128767	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
50) Toluene-d8	10.06	98	509242	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
62) 4-Bromofluorobenzene	12.38	95	196263	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	393	0.242	ug/l #	3
11) Tert butyl alcohol	4.72	59	185	0.380	ug/l #	72
16) Acetone	3.78	43	32873	29.137	ug/l	94
18) Methyl Acetate	4.28	43	1599	0.558	ug/l #	78
20) Methylene Chloride	4.51	84	18671	6.532	ug/l	93
25) 2-Butanone	6.79	43	2980	1.717	ug/l	91
29) Tetrahydrofuran	7.18	42	1120	0.945	ug/l #	72
31) Cyclohexane	7.62	56	6224	1.284	ug/l #	40
36) 1,1-Dichloropropene	7.63	75	20085	4.785	ug/l #	50
38) Carbon Tetrachloride	7.63	117	22919	5.349	ug/l #	17
43) Isopropyl Acetate	8.13	43	81322	11.039	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1641	0.503	ug/l #	43
48) Methyl methacrylate	9.14	41	5616	1.552	ug/l #	15
49) 1,4-Dioxane	9.23	88	141	2.715	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	9679	2.347	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	31364	5.977	ug/l #	64
56) Ethyl methacrylate	10.51	69	1538	0.344	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5697	1.104	ug/l #	42
59) 2-Hexanone	10.74	43	91955	30.777	ug/l #	54
74) N-amyl acetate	12.01	43	4513	0.727	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	112003	27.670	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3632	0.332	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	112003	75.860	ug/l #	7

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

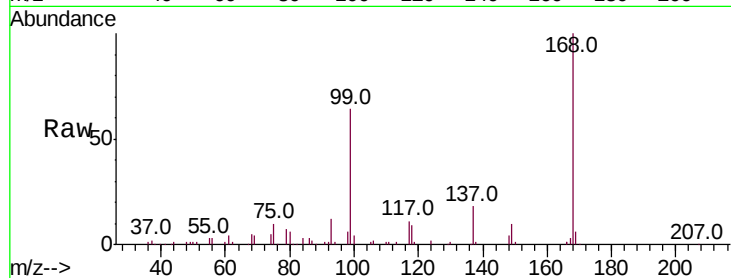
PB131772ZHE#02

Tot Ion:168 Resp: 206228

Ion Ratio Lower Upper

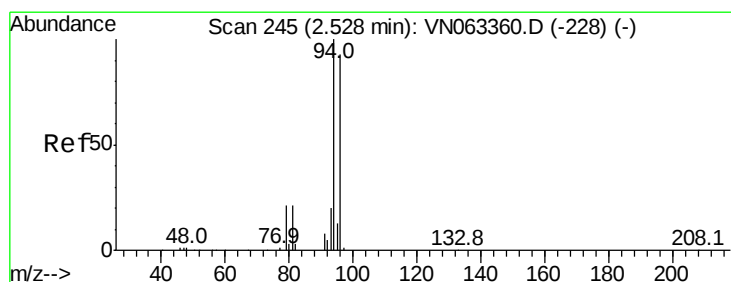
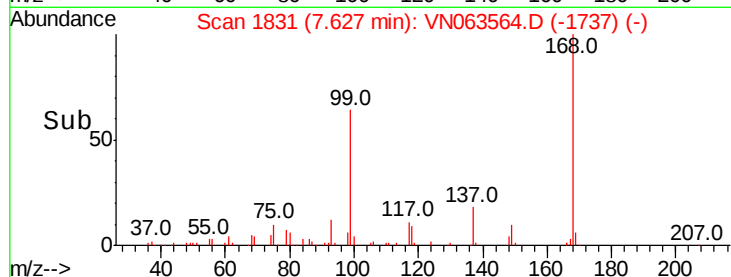
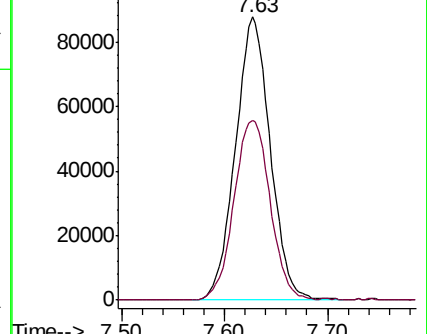
168 100

99 63.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)



#5

Bromomethane

Concen: 0.242 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.02 min

Lab File: VN063564.D

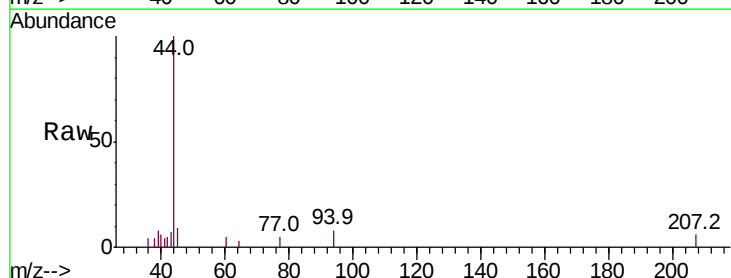
Acq: 23 Sep 2020 4:51

Tgt Ion: 94 Resp: 393

Ion Ratio Lower Upper

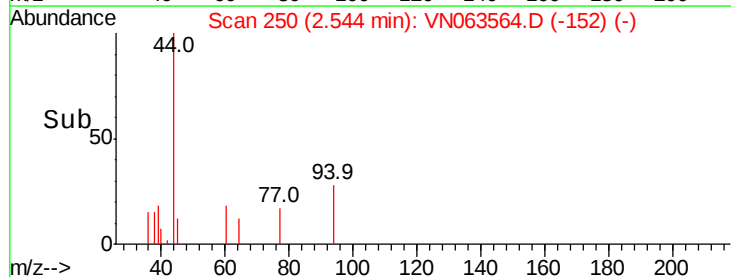
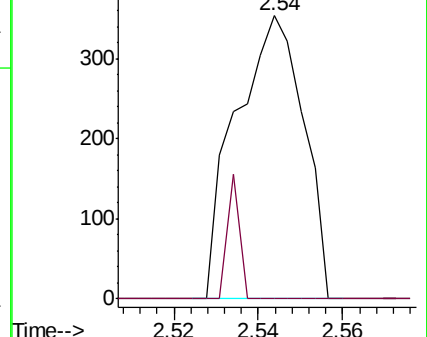
94 100

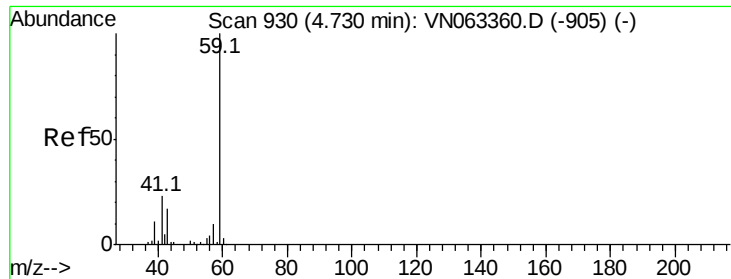
96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN063360.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN063360.D (-228) (-)

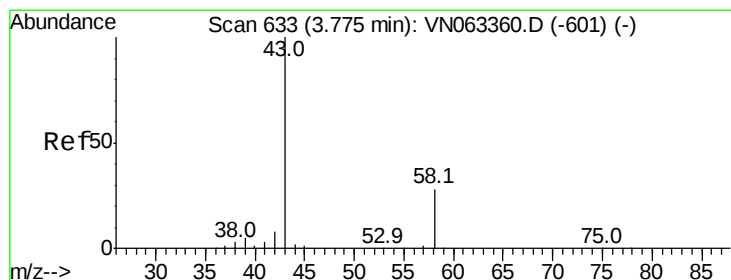
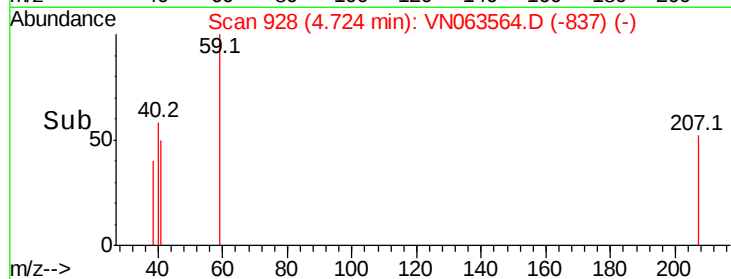
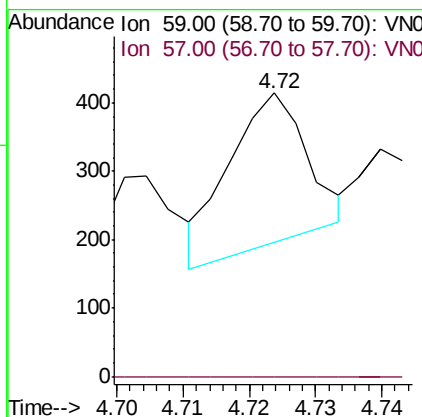
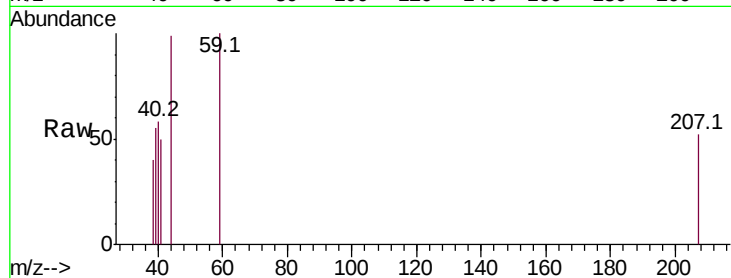




#11
Tert butyl alcohol
Concen: 0.380 ug/l
RT: 4.72 min Scan# 928
Delta R.T. -0.01 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

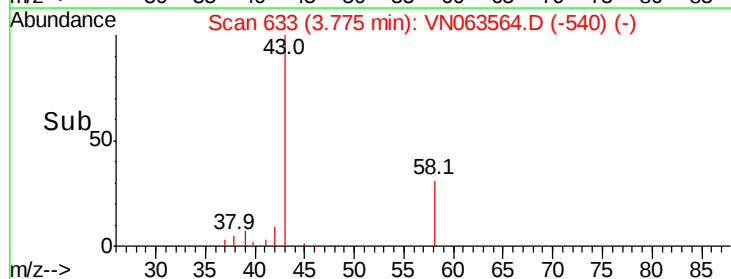
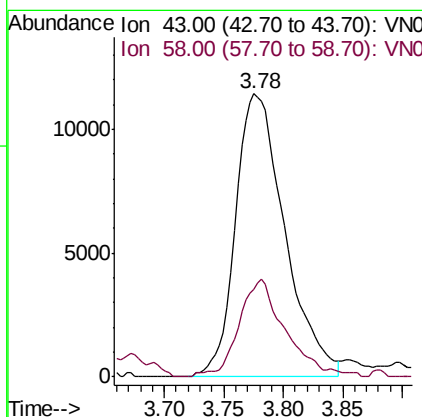
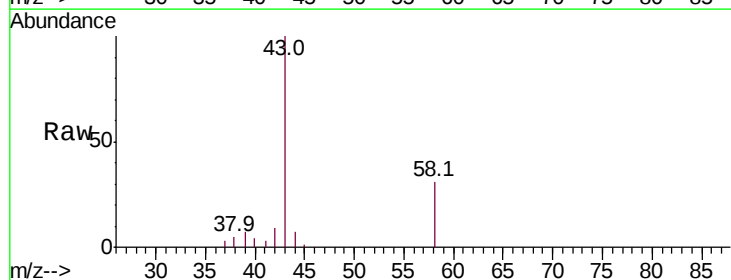
Instrument :
MSVOA_N
ClientSampleId :
PB131772ZHE#02

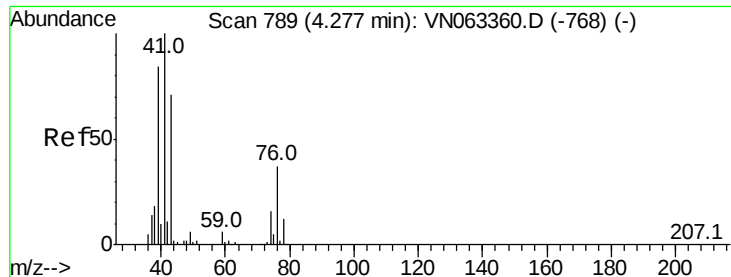
Tot Ion: 59 Resp: 185
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 29.137 ug/l
RT: 3.78 min Scan# 633
Delta R.T. -0.00 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

Tgt Ion: 43 Resp: 32873
Ion Ratio Lower Upper
43 100
58 31.1 22.3 33.5

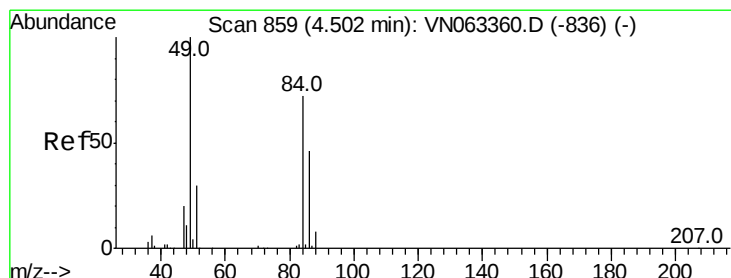
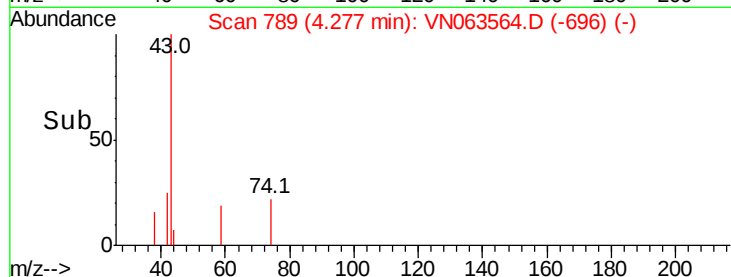
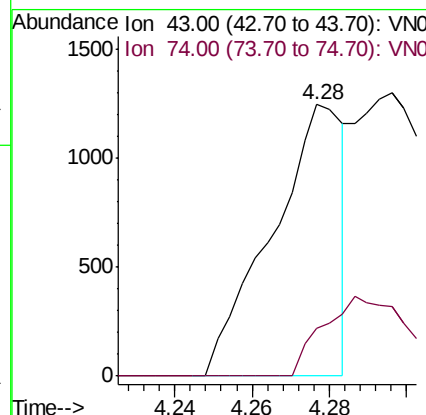
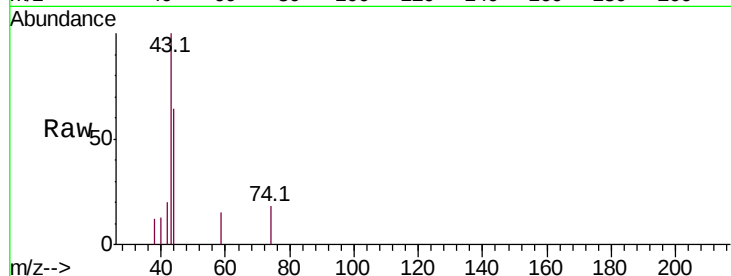




#18
Methyl Acetate
Concen: 0.558 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

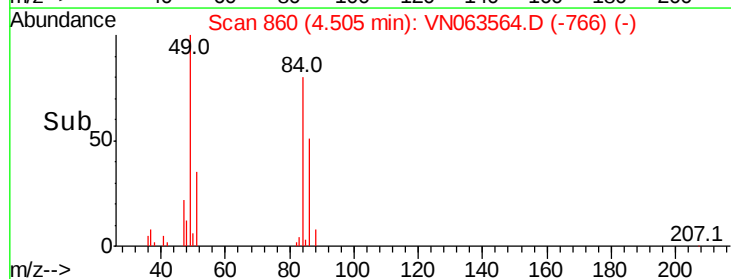
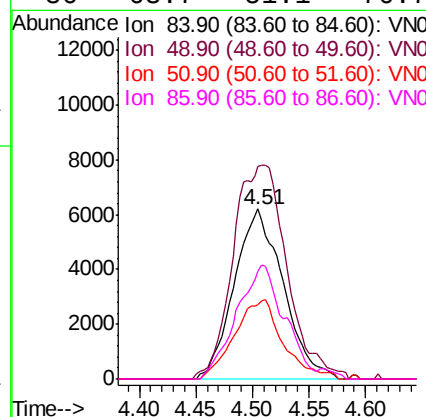
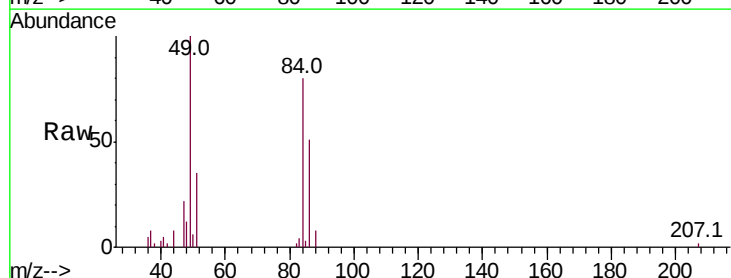
Instrument :
MSVOA_N
ClientSampleId :
PB131772ZHE#02

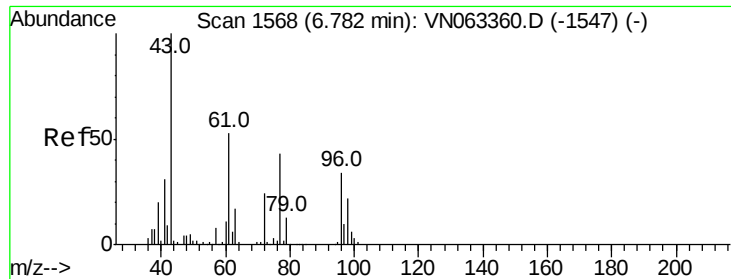
Tot Ion: 43 Resp: 1599
Ion Ratio Lower Upper
43 100
74 32.1 17.4 26.2#



#20
Methylene Chloride
Concen: 6.532 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

Tgt Ion: 84 Resp: 18671
Ion Ratio Lower Upper
84 100
49 124.9 110.7 166.1
51 43.8 32.9 49.3
86 63.7 51.1 76.7





#25

2-Butanone

Concen: 1.717 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

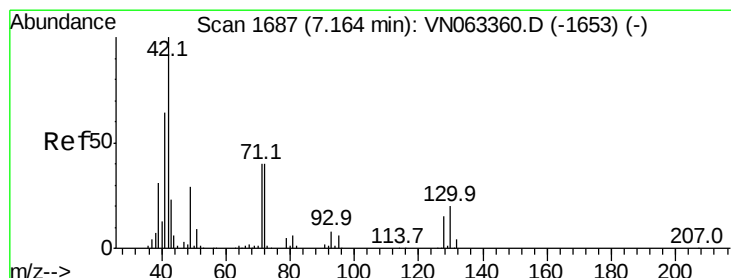
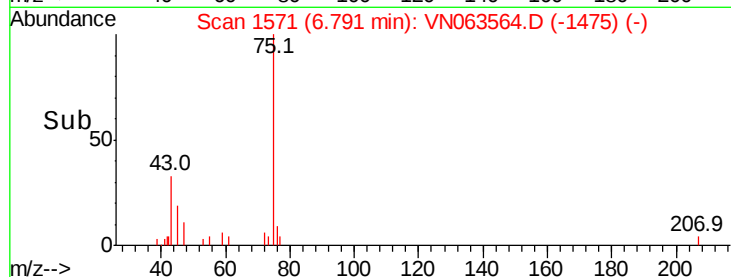
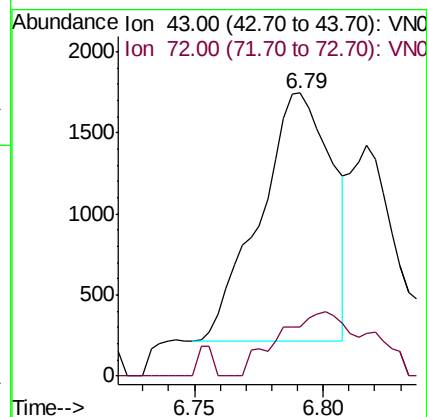
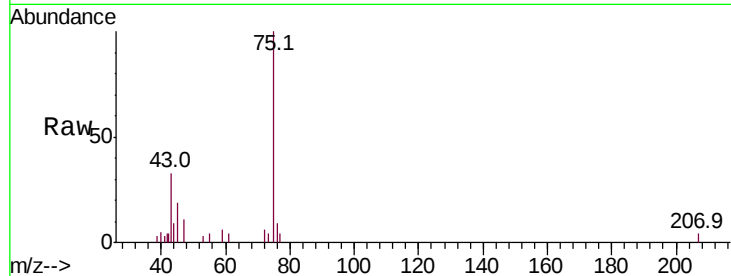
PB131772ZHE#02

Tot Ion: 43 Resp: 2980

Ion Ratio Lower Upper

43 100

72 19.7 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.945 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

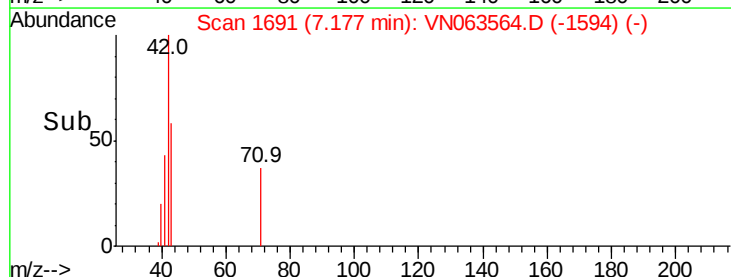
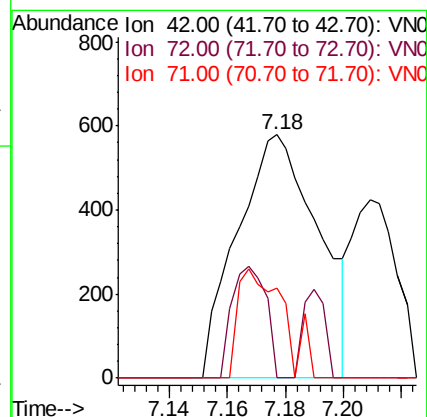
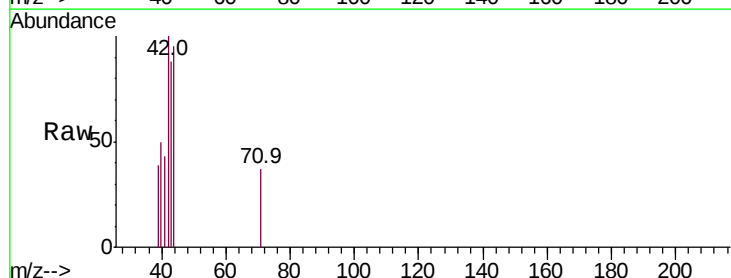
Tgt Ion: 42 Resp: 1120

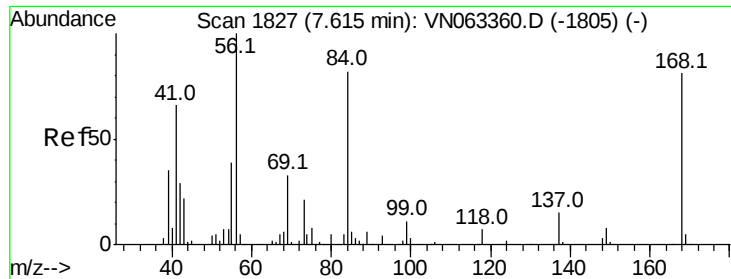
Ion Ratio Lower Upper

42 100

72 19.1 32.1 48.1#

71 25.2 31.2 46.8#

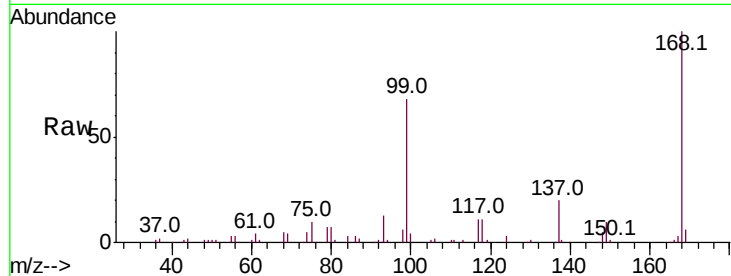




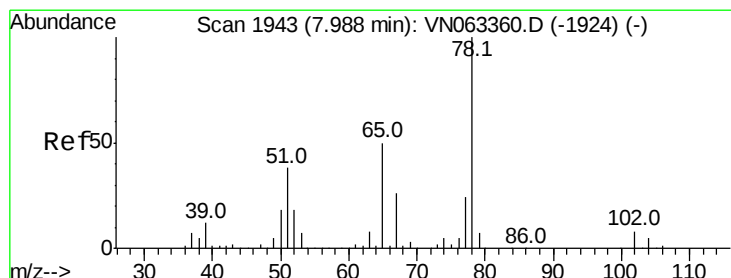
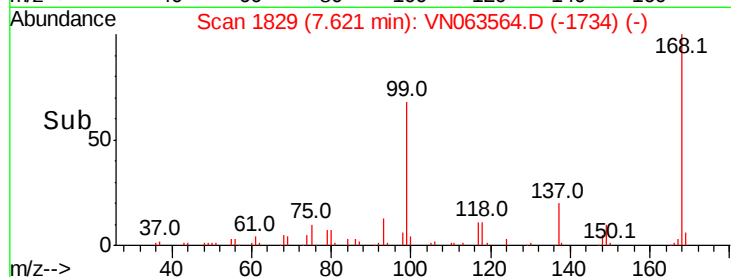
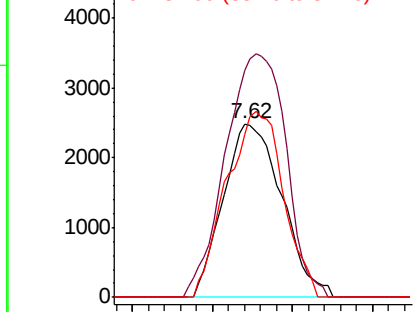
#31
Cyclohexane
Concen: 1.284 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

Instrument :
MSVOA_N
ClientSampleId :
PB131772ZHE#02

Tot Ion: 56 Resp: 6224
Ion Ratio Lower Upper
56 100
69 130.5 26.1 39.1#
84 94.1 65.4 98.2

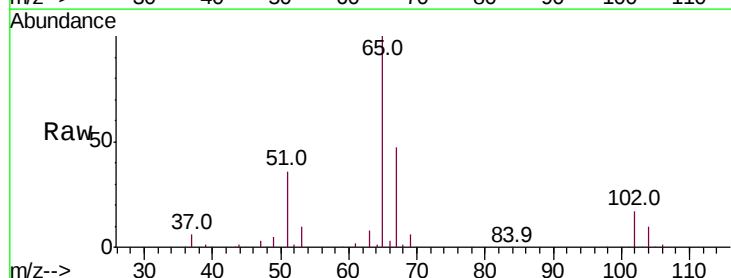


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

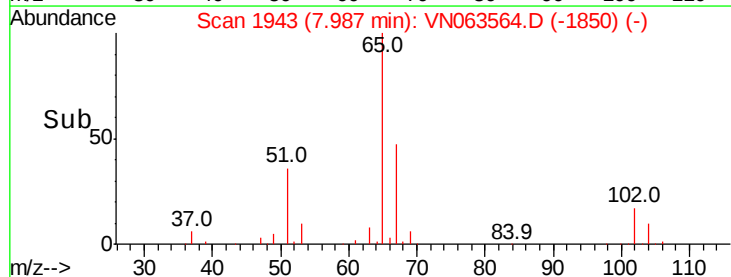
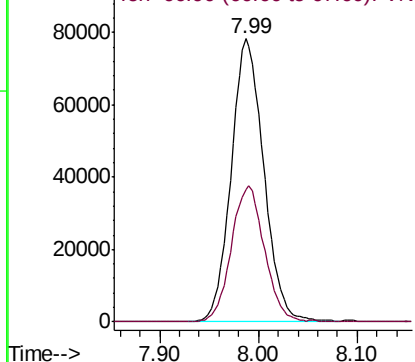


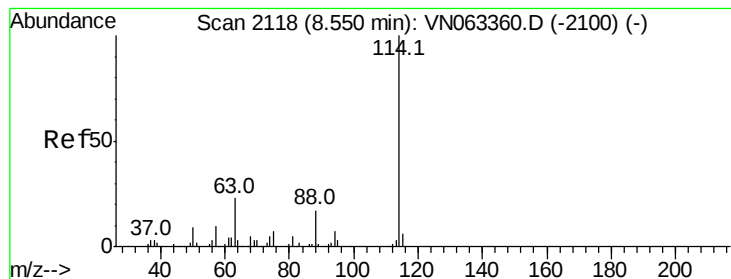
#33
1,2-Dichloroethane-d4
Concen: 51.263 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

Tgt Ion: 65 Resp: 179962
Ion Ratio Lower Upper
65 100
67 48.8 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#02

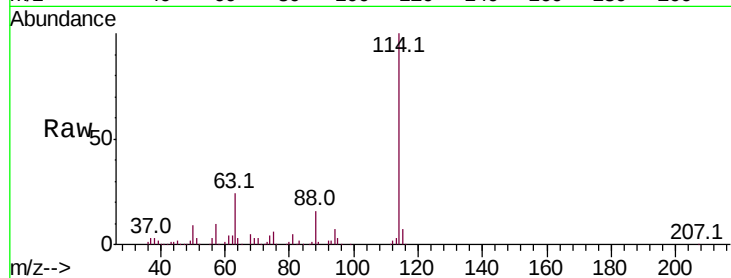
Tot Ion:114 Resp: 394010

Ion Ratio Lower Upper

114 100

63 23.7 0.0 46.4

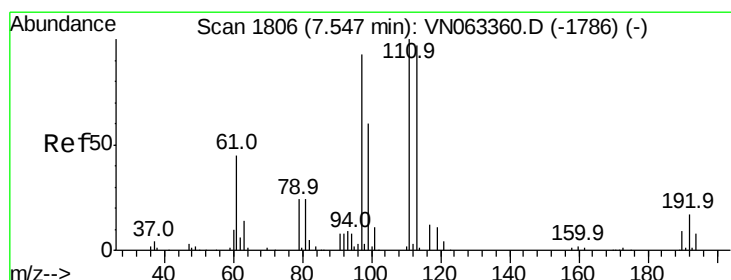
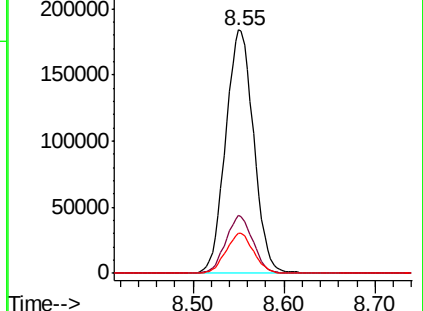
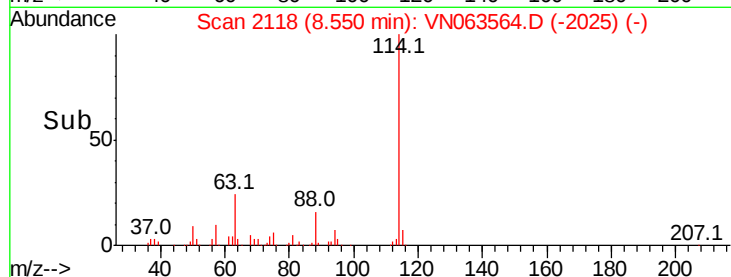
88 16.5 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.208 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

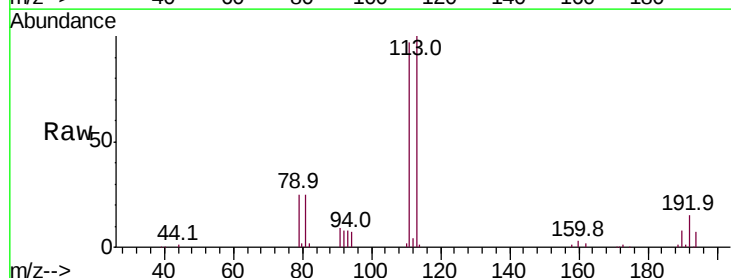
Tgt Ion:113 Resp: 128767

Ion Ratio Lower Upper

113 100

111 100.7 82.9 124.3

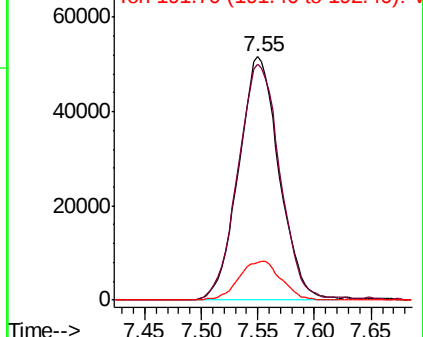
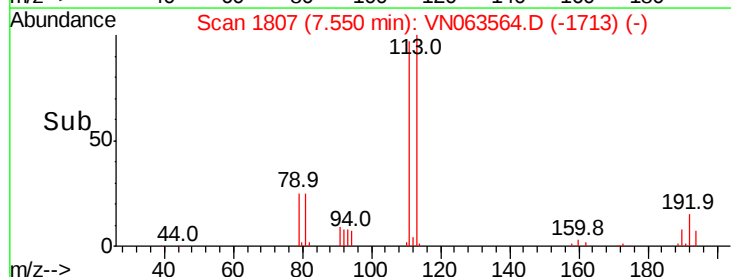
192 16.6 13.9 20.9

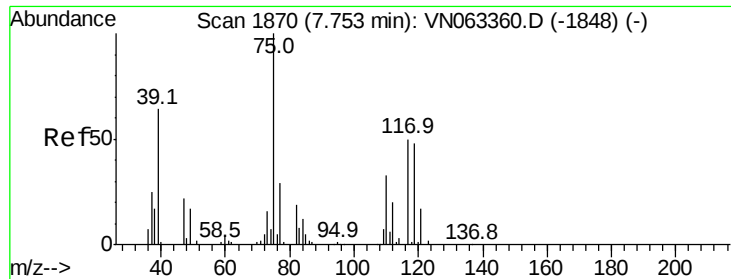


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

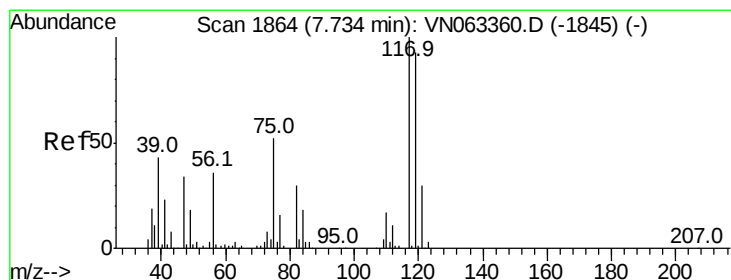
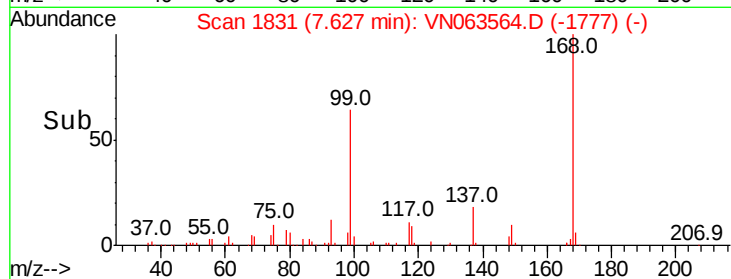
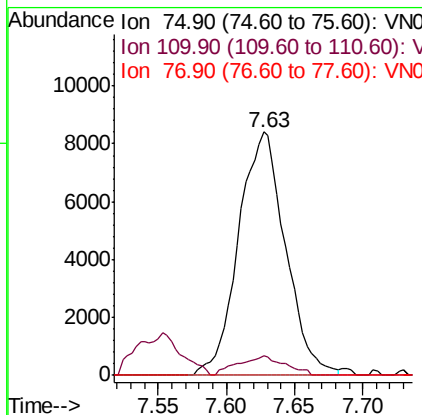
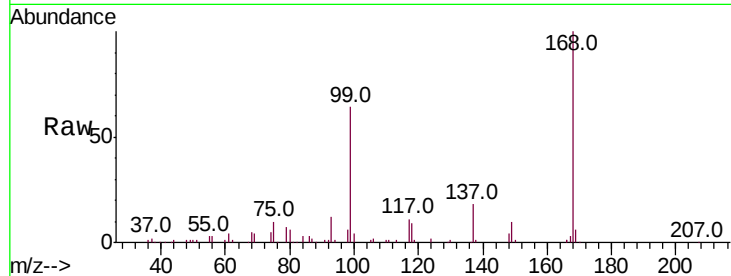




#36
 1,1-Dichloropropene
 Concen: 4.785 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063564.D
 Acq: 23 Sep 2020 4:51

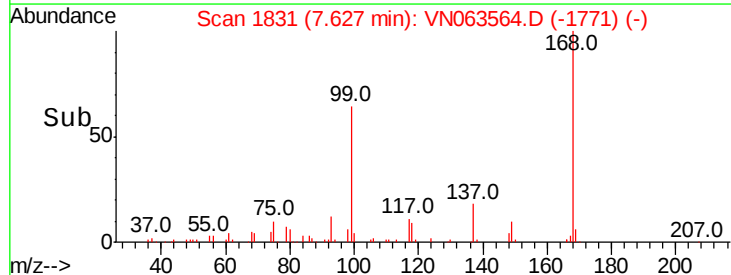
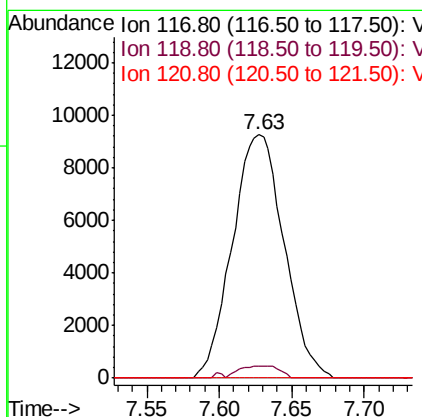
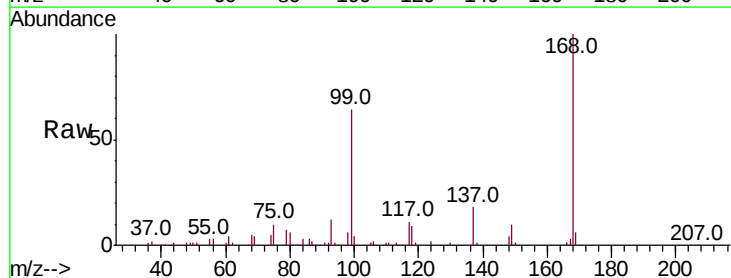
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131772ZHE#02

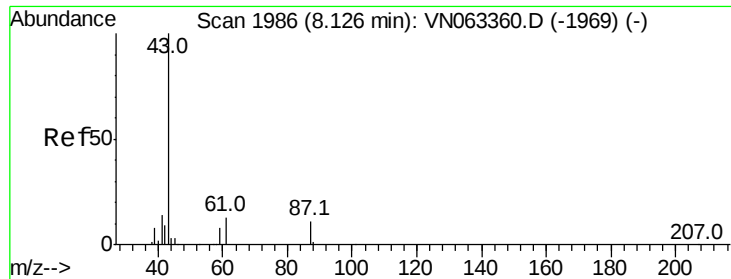
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.349 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063564.D
 Acq: 23 Sep 2020 4:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	74.5	111.7#
121	0.0	24.1	36.1#





#43

Isopropyl Acetate

Concen: 11.039 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#02

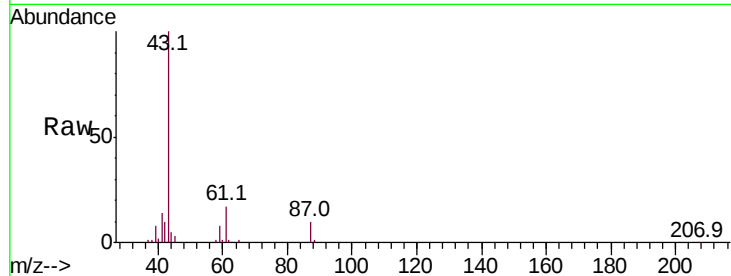
Tot Ion: 43 Resp: 81322

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.2

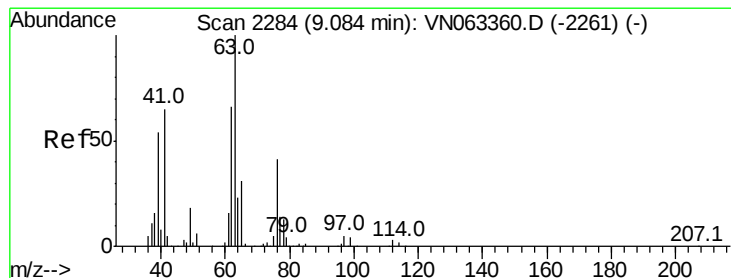
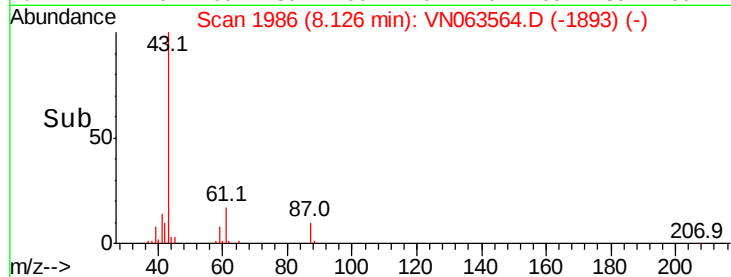
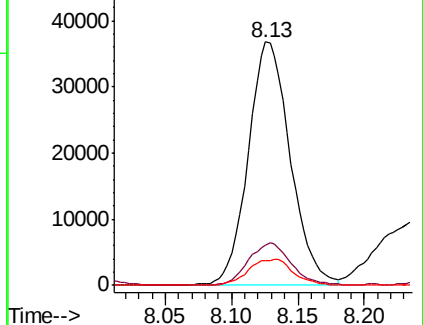
87 11.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.503 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063564.D

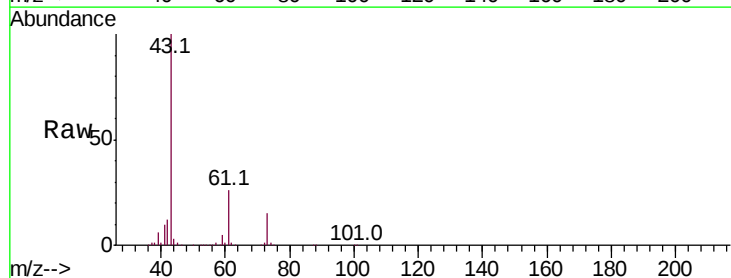
Acq: 23 Sep 2020 4:51

Tgt Ion: 63 Resp: 1641

Ion Ratio Lower Upper

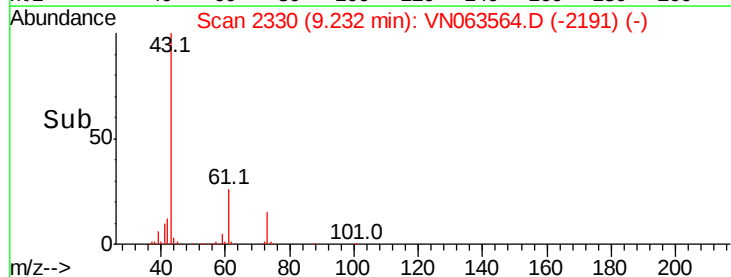
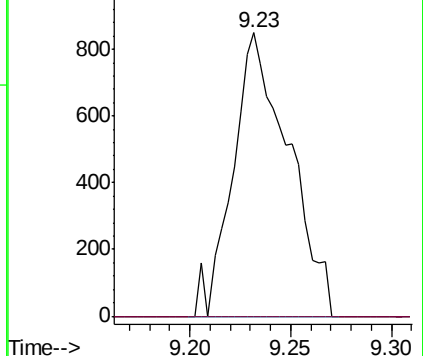
63 100

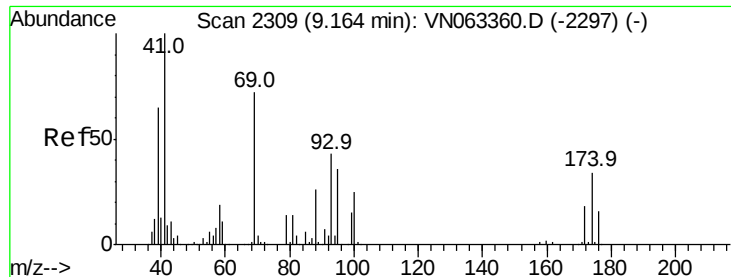
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

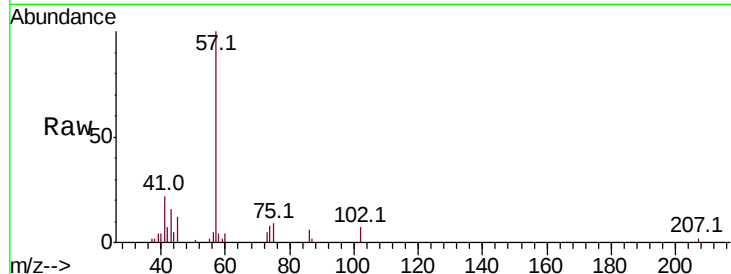




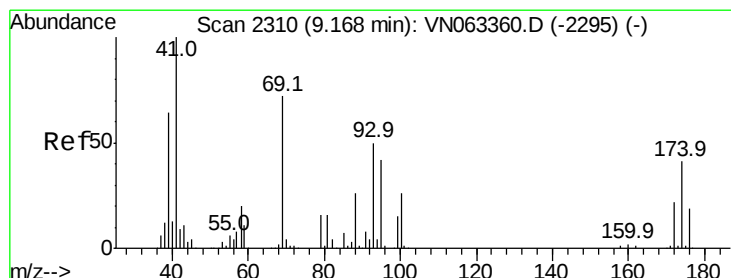
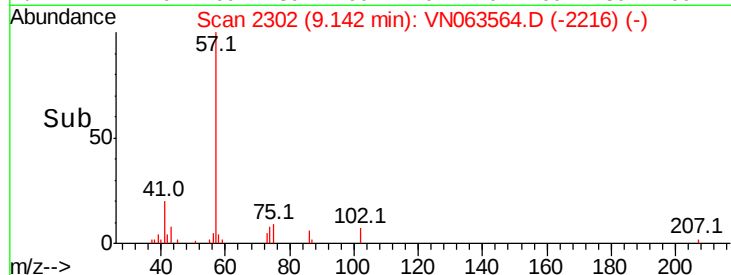
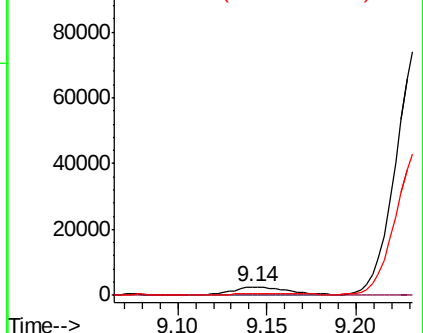
#48
Methyl methacrylate
Concen: 1.552 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

Instrument :
MSVOA_N
ClientSampleId :
PB131772ZHE#02

Tot Ion: 41 Resp: 5616
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#

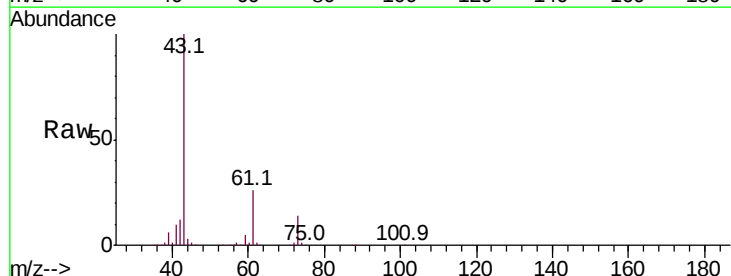


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

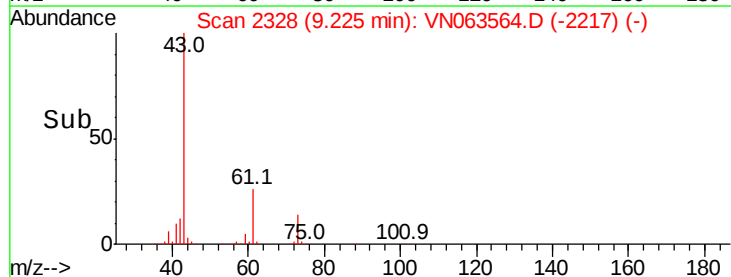
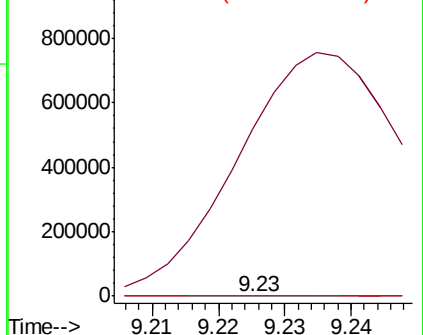


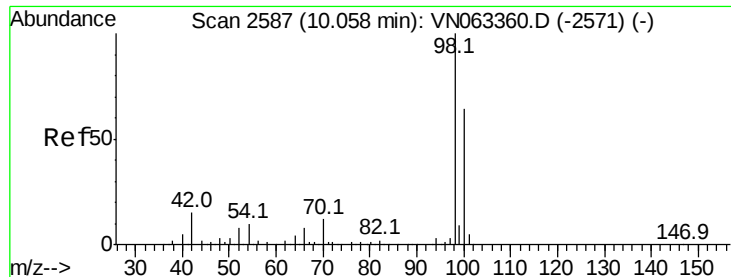
#49
1,4-Dioxane
Concen: 2.715 ug/l
RT: 9.23 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN063564.D
Acq: 23 Sep 2020 4:51

Tgt Ion: 88 Resp: 141
Ion Ratio Lower Upper
88 100
43 995283.0 32.6 49.0#
58 4181.6 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 49.651 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

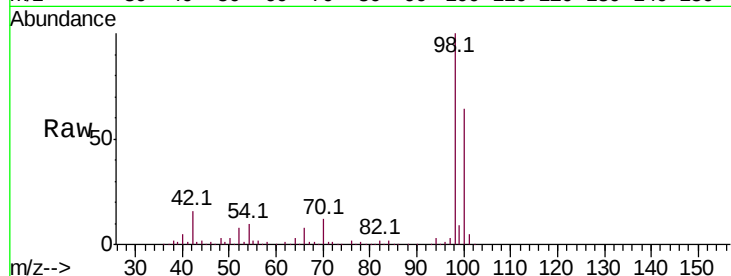
PB131772ZHE#02

Tot Ion: 98 Resp: 509242

Ion Ratio Lower Upper

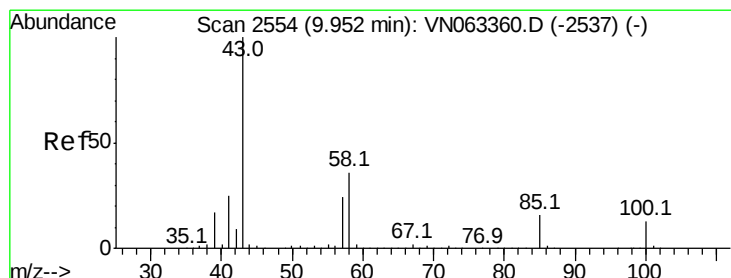
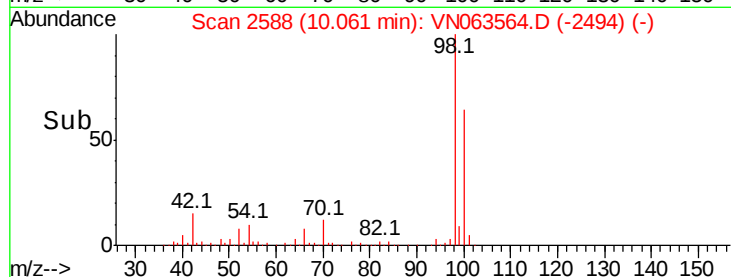
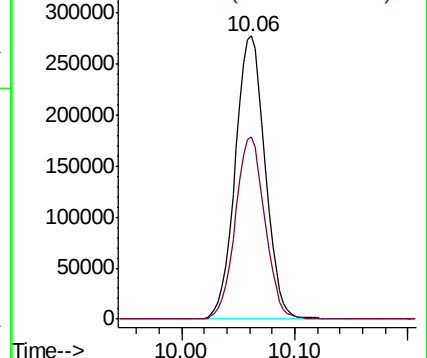
98 100

100 63.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.347 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063564.D

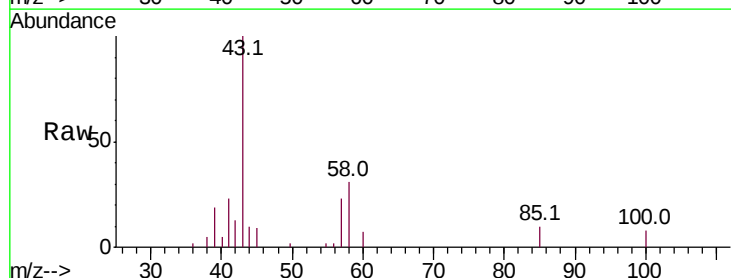
Acq: 23 Sep 2020 4:51

Tgt Ion: 43 Resp: 9679

Ion Ratio Lower Upper

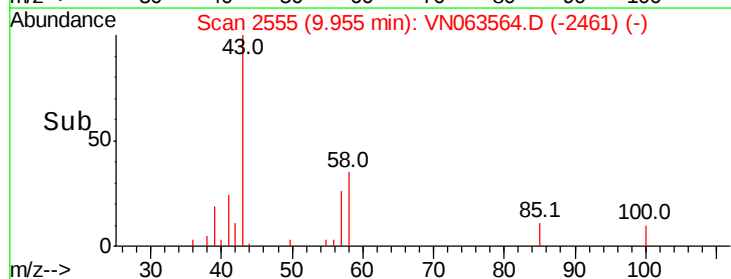
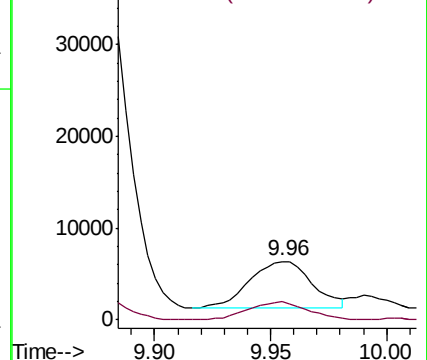
43 100

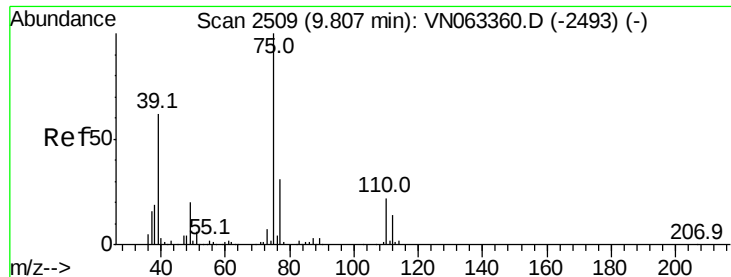
58 36.4 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 5.977 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#02

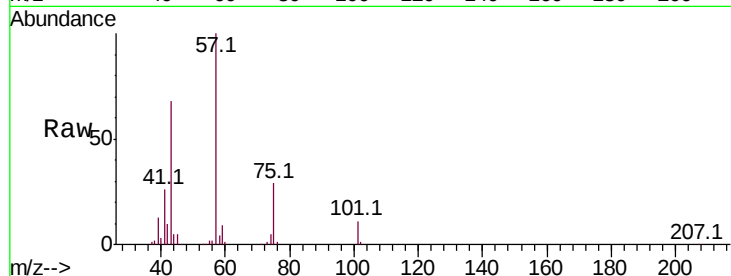
Tot Ion: 75 Resp: 31364

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

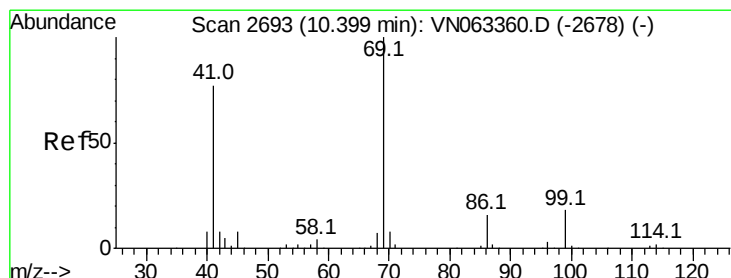
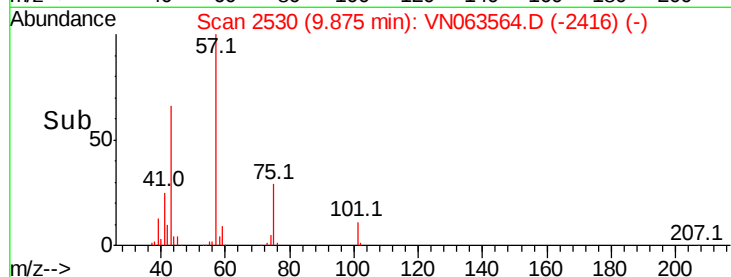
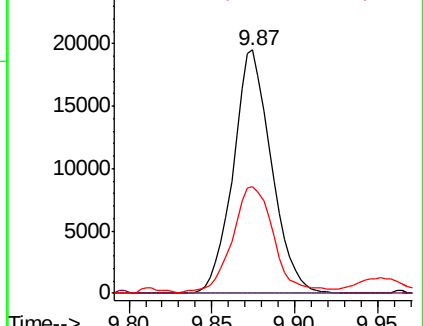
39 42.7 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.344 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

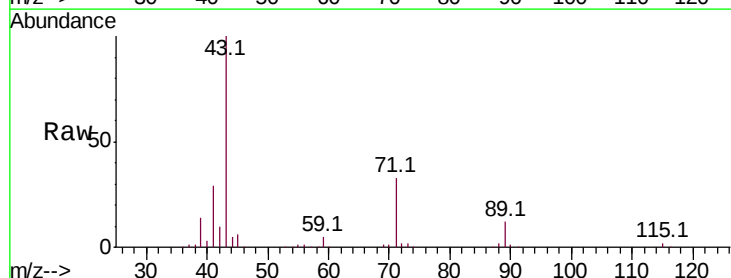
Tgt Ion: 69 Resp: 1538

Ion Ratio Lower Upper

69 100

41 5378.3 61.0 91.6#

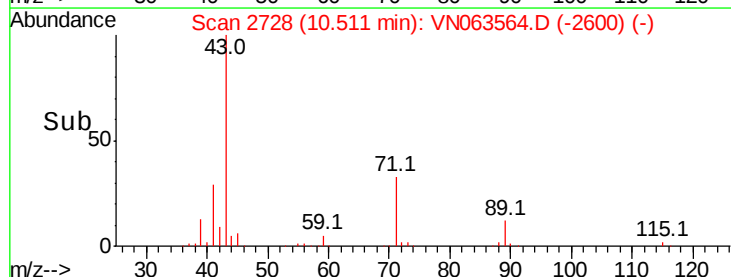
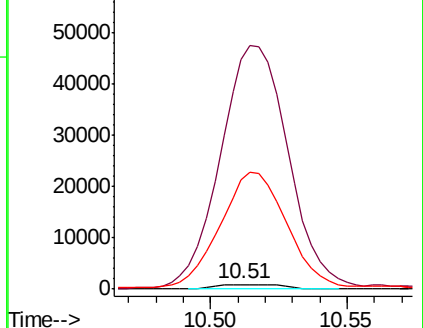
39 2479.1 39.2 58.8#

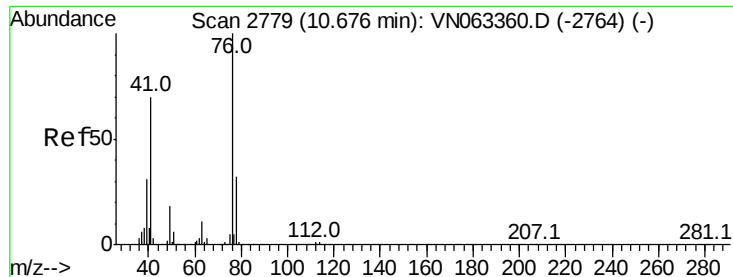


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.104 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

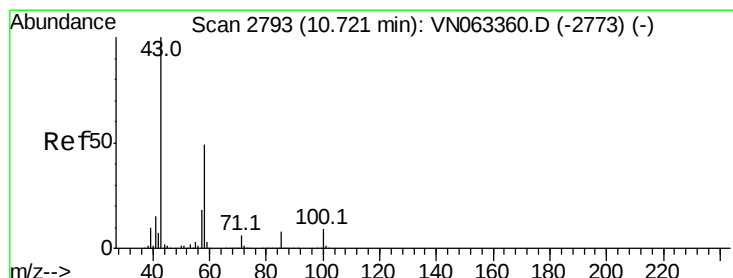
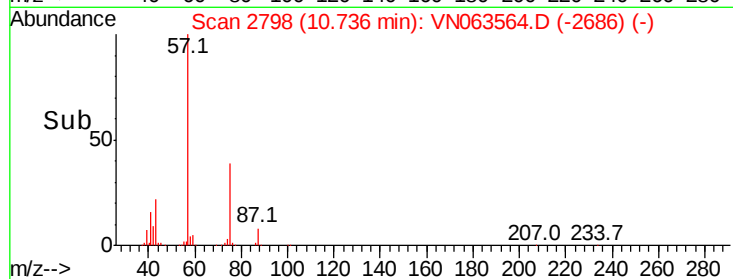
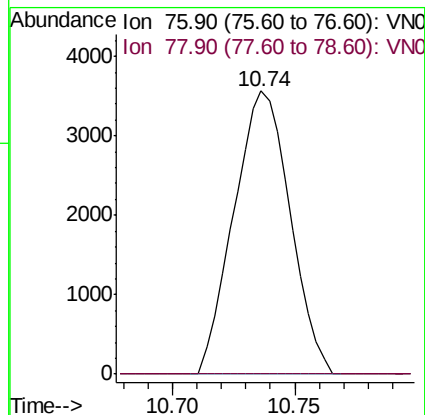
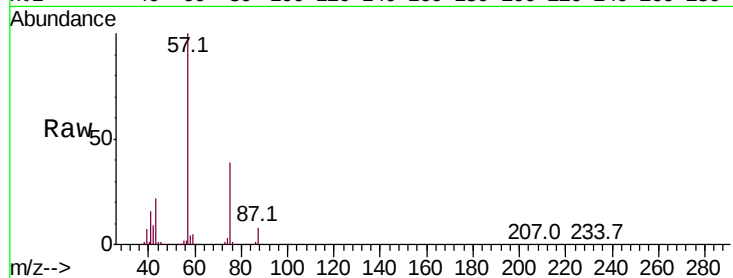
PB131772ZHE#02

Tot Ion: 76 Resp: 5697

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 30.777 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063564.D

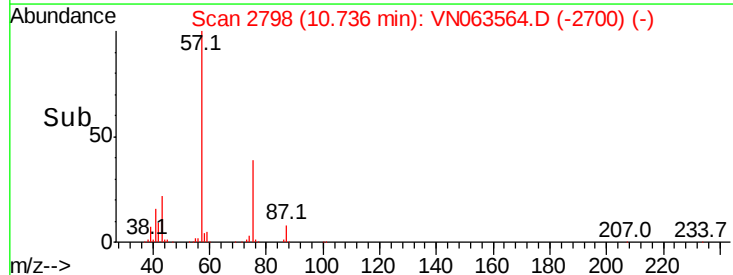
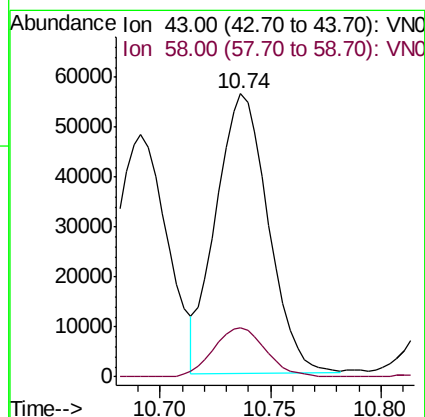
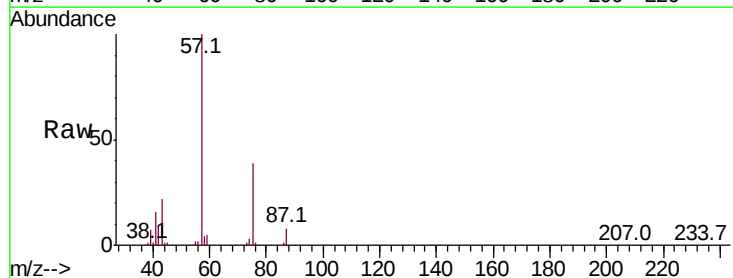
Acq: 23 Sep 2020 4:51

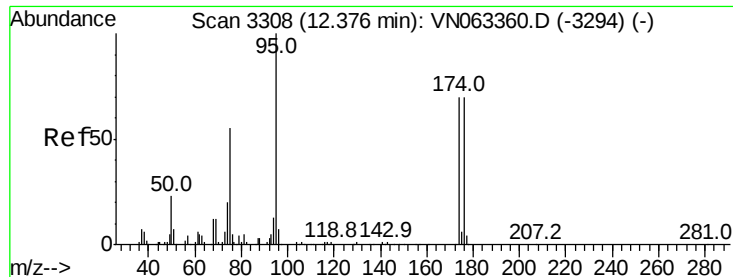
Tgt Ion: 43 Resp: 91955

Ion Ratio Lower Upper

43 100

58 17.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 52.200 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#02

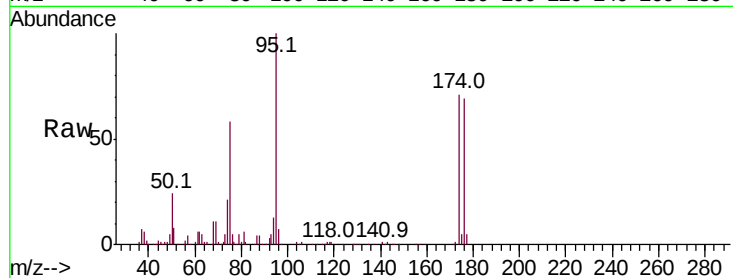
Tot Ion: 95 Resp: 196263

Ion Ratio Lower Upper

95 100

174 71.6 0.0 140.8

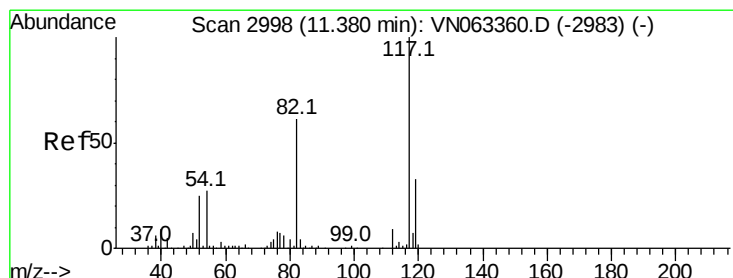
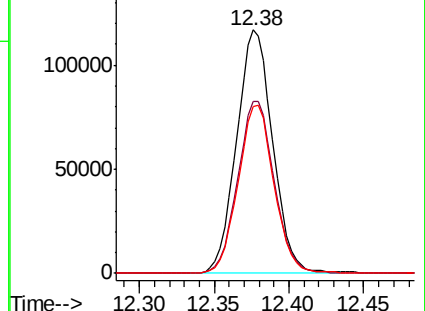
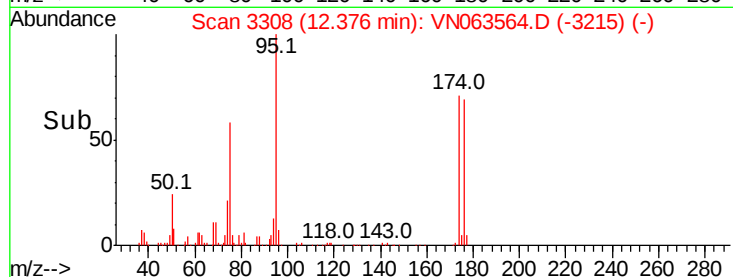
176 68.9 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

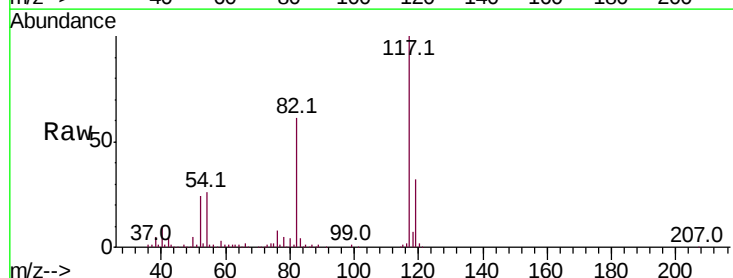
Tgt Ion: 117 Resp: 397928

Ion Ratio Lower Upper

117 100

82 61.2 49.2 73.8

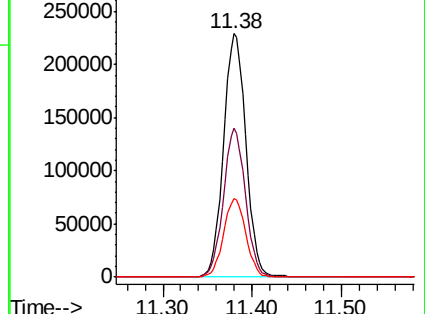
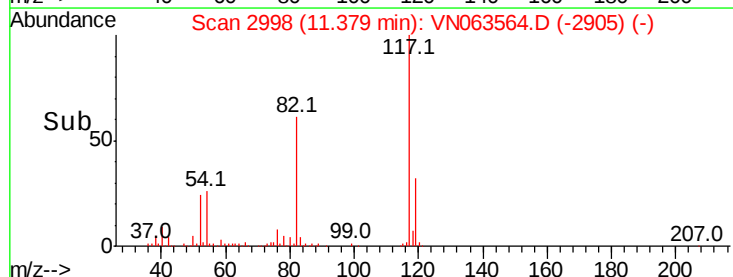
119 32.0 26.2 39.4

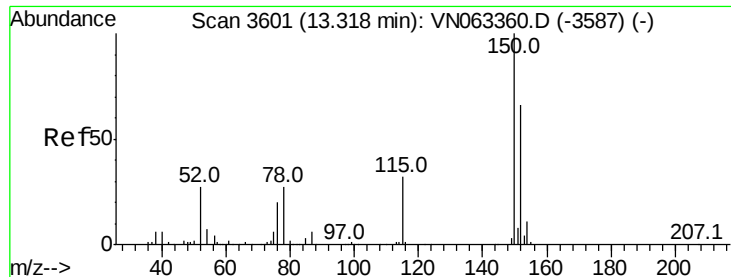


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#02

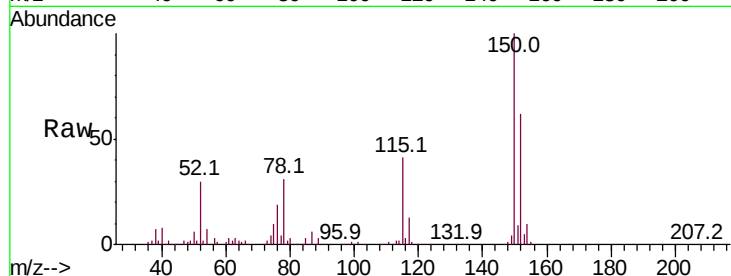
Tot Ion:152 Resp: 163541

Ion Ratio Lower Upper

152 100

115 64.0 32.2 96.6

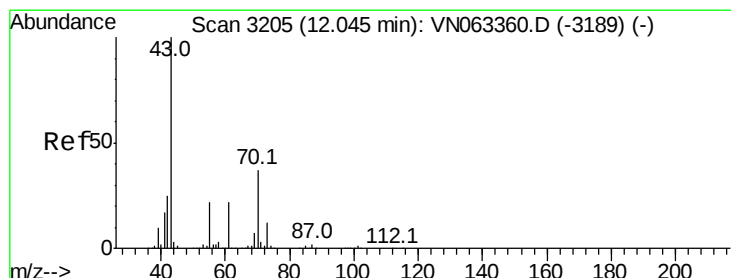
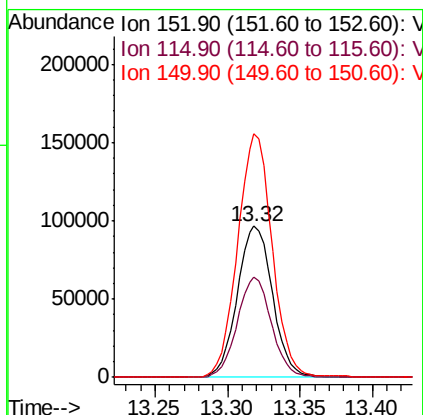
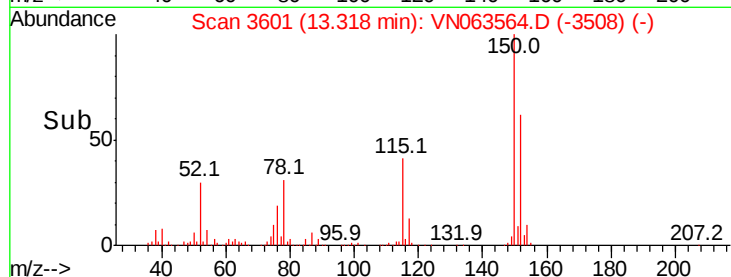
150 157.7 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.727 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Tgt Ion: 43 Resp: 4513

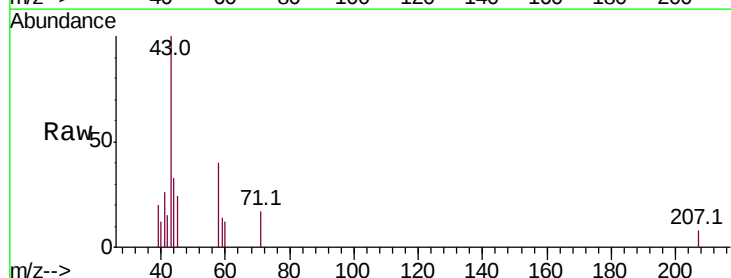
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 2.8 17.7 26.5#

61 0.0 17.4 26.2#

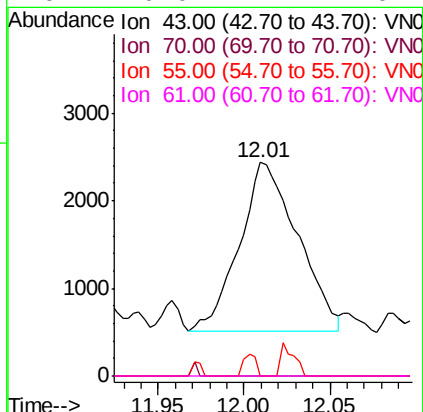
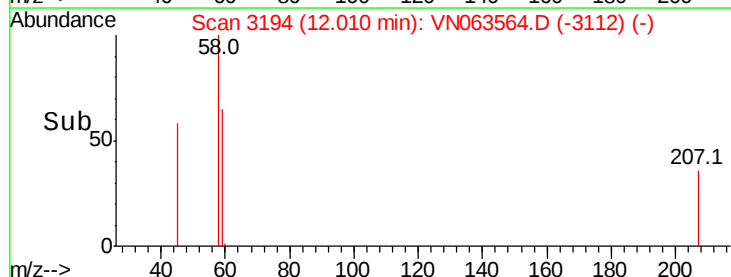


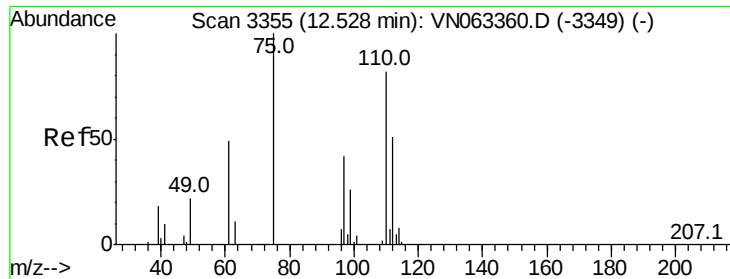
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

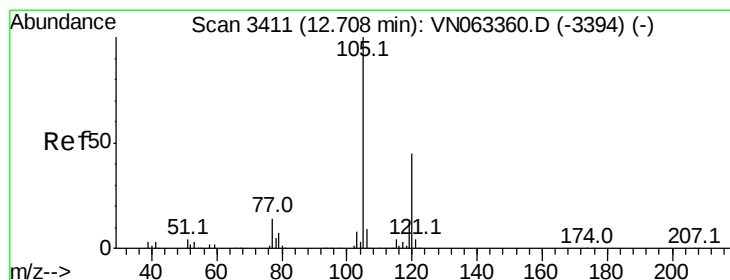
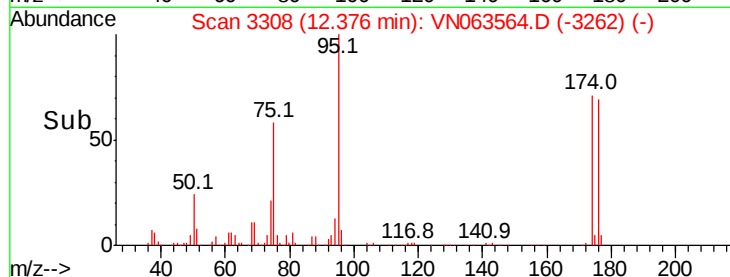
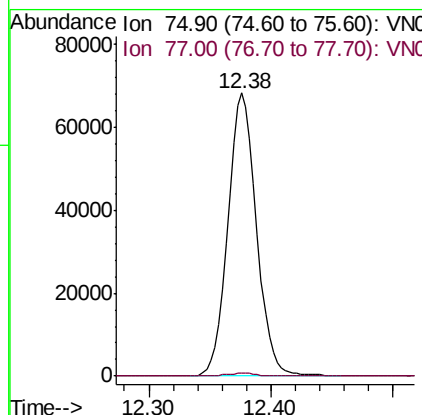
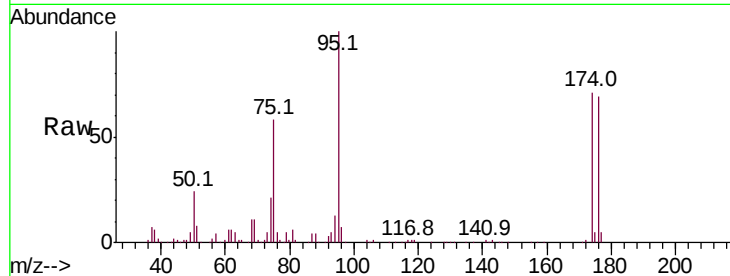




#76
 1,2,3-Trichloropropane
 Concen: 27.670 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063564.D
 Acq: 23 Sep 2020 4:51

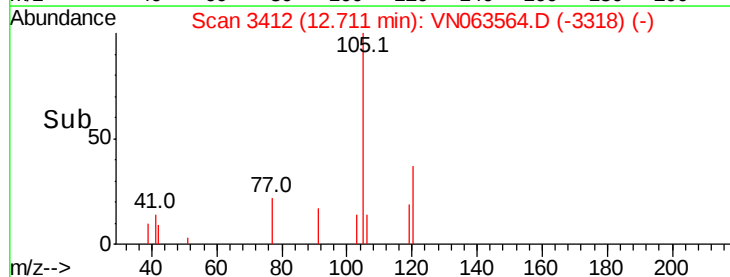
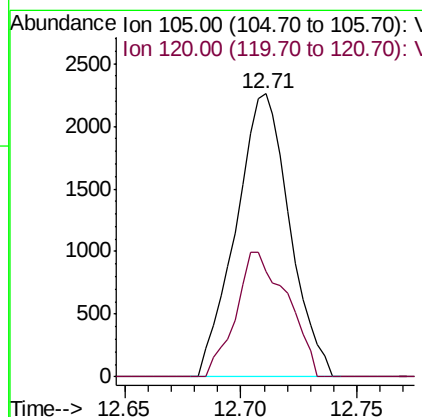
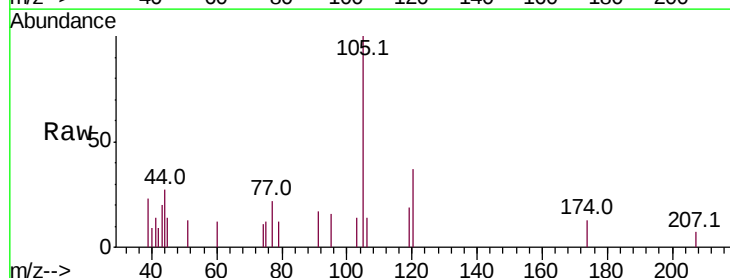
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131772ZHE#02

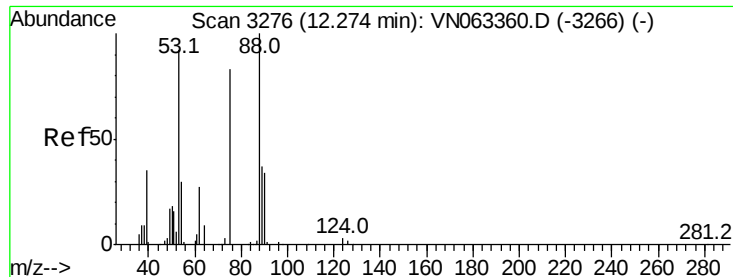
Tot Ion: 75 Resp: 112003
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.332 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063564.D
 Acq: 23 Sep 2020 4:51

Tgt Ion: 105 Resp: 3632
 Ion Ratio Lower Upper
 105 100
 120 42.2 22.9 68.8





#81

trans-1,4-Dichloro-2-butene

Concen: 75.860 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063564.D

Acq: 23 Sep 2020 4:51

Instrument :

MSVOA_N

ClientSampleId :

PB131772ZHE#02

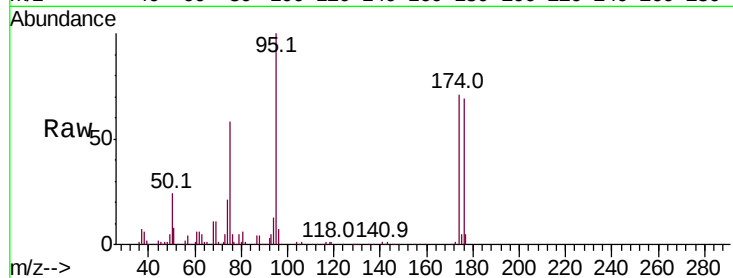
Tot Ion: 75 Resp: 112003

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

